

**Tetra Tech, Inc.**

4213 State Street, Suite 100
 Santa Barbara, CA 93110-2847
 VOICE (805) 681-3100 FAX (805) 681-3108

Project: **Vandenberg Air Force Base IRP**
 Log of Well No. **5-MW-5**

Location: Approx. 800 ft northeast of confluence of Bear Creek
 Canyon and tributary and approx. 400 ft southwest of 5-MW-3.

Date Started: 4/28/99	Completed: 4/28/99	4" PVC Bank Casing: from 0 ft bgs to 10 ft bgs
Logged By: M. Wulftange	Checked By: K. McNamara, R.G.	0.01" Screening Casing: from 10 ft bgs to 20 ft bgs
Drilled By: John Surigao, Valley Well Drilling <i>K7#6678</i>		Bentonite/Cement Grout: from 0 ft bgs to 6.5 ft bgs
Drilling Equipment: B-61 Mobile Drill, 6-inch & 10-inch HSA		Bentonite Transitional Seal: from 6.5 ft bgs to 8 ft bgs
Sampling Equipment: 2-inch I.D. Split Spoon (0-10 ft) 2.5-inch I.D. Split Spoon (10-22.5 ft)		2/12 Sand Filter Pack: from 8 ft bgs to 22.5 ft bgs
GS Elev.: 267.0 ft above MSL	TD: 22.5 ft bgs	TOC Elev.: 270.11 ft above MSL

Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
	silty sand, dark yellowish brown (10YR 3/6), fine grained, poorly graded, subangular, loose, slightly moist, alluvium.		SM					0/6.5	Start drilling 1100.
	silt with clay, very dark brown (7.5YR 2.5/2), loose, slightly moist, trace fine sand, alluvium.		ML			5 6 7	50	0/0	Sample V5MW5-0 submitted for laboratory analyses. Sample V5MW5-2 submitted for laboratory analyses.
5	few roots.					4 5 5	40		Sample V5MW5-5 submitted for laboratory analyses.
10	dark brown (7.5YR 3/2), few fine grained subangular sand, mottled (reddish yellow, 7.5YR 6/6).					4 4 5	50	0/0	Sample V5MW5-10 submitted for laboratory analyses. Continuous core from 10 ft to TD.
	dark brown (10YR 3/3), very moist, some 1/4 -inch clay nodules, very pale brown (10YR 7/3).						0		No recovery.
15							100	0/0	
	few iron stained nodules of fine grained sand.						100	0/0	
20	clay, mottled color, 50% dark brown (10YR 3/3), 50% yellowish red (5YR 4/6), very moist,		CL				100	0/0	Sample V5MW5-19 submitted for laboratory analyses.

14.0 ft bgs Groundwater depth during drilling 14.6 ft bgs Groundwater depth before sampling on 5/27/99

TC Number: A234-06

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Depth (ft. bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
20	few subangular fine sand, few roots, alluvium.		CL				75	0/0	End drilling 1320. TD of 6-inch hole at 22.5 ft. Reamed with 10-inch auger to 22.5 ft. Construct 4-inch well.
	light yellowish brown (10YR 6/4) with mottling, little plant material.								
25									
30									
35									
40									
45									